



National Transportation Safety Board Aviation Accident Data Summary

Location:	Arcadia, FL	Accident Number:	ERA10LA159
Date & Time:	03/03/2010, 1435 EST	Registration:	N4797K
Aircraft:	CESSNA P210N	Injuries:	1 Serious, 1 Minor
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

About 25 minutes into a cross-country flight, the airplane lost all engine power, and the pilot made an emergency landing in a field. The airplane collided with a power line pole and was consumed by a postcrash fire. Disassembly and examination of the engine revealed that the crankshaft separated at the forward end of the No. 2 connecting rod journal. According to laboratory analysis, the fatigue fracture of the crankshaft was due to bearing wear and bearing shift. The maintenance records were destroyed by the postcrash fire, and no other history on the engine was obtained.

Flight Events

Enroute-cruise - Loss of engine power (total)
Emergency descent - Off-field or emergency landing
Emergency descent - Collision with terr/obj (non-CFIT)

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be:
The total loss of engine power due to a fatigue fracture of the crankshaft resulting from worn bearings.

Findings

Aircraft-Aircraft power plant-Engine (reciprocating)-Recip engine power section-Failure - C
Aircraft-Aircraft power plant-Engine (reciprocating)-Recip engine power section-Damaged/degraded - C

Pilot Information

Certificate:	Flight Instructor; Commercial	Age:	69
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Instrument Rating(s):	Airplane
Other Aircraft Rating(s):	Helicopter	Instructor Rating(s):	Helicopter
Flight Time:	(Estimated) 20000 hours (Total, all aircraft), 1800 hours (Total, this make and model), 135 hours (Last 90 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Manufacturer:	CESSNA	Registration:	N4797K
Model/Series:	P210N	Engines:	1 Reciprocating
Operator:	MCDERMOTT WAYNE E	Engine Manufacturer:	CONT MOTOR
Air Carrier Operating Certificate:	None	Engine Model/Series:	TSIO-520 SER
Flight Conducted Under:	Part 91: General Aviation - Personal		

Meteorological Information and Flight Plan

Observation Facility, Elevation:	PGD, 26 ft msl	Weather Information Source:	Weather Observation Facility
Conditions at Accident Site:	Visual Conditions	Lowest Ceiling:	Broken / 4600 ft agl
Condition of Light:	Day	Wind Speed/Gusts, Direction:	21 knots/ 26 knots, 310°
Temperature:	16° C / 4° C	Visibility	10 Miles
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Fort Myers, FL (FL59)	Destination:	Hinesville, GA (LHW)

Wreckage and Impact Information

Crew Injuries:	1 Minor	Aircraft Damage:	Substantial
Passenger Injuries:	1 Serious	Aircraft Fire:	On-Ground
Ground Injuries:	N/A	Aircraft Explosion:	None

Administrative Information

Investigator In Charge (IIC):	Eric Alleyne	Adopted Date:	06/28/2012
Investigation Docket:	http://dms.nts.gov/pubdms/search/dockList.cfm?mKey=75435		

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